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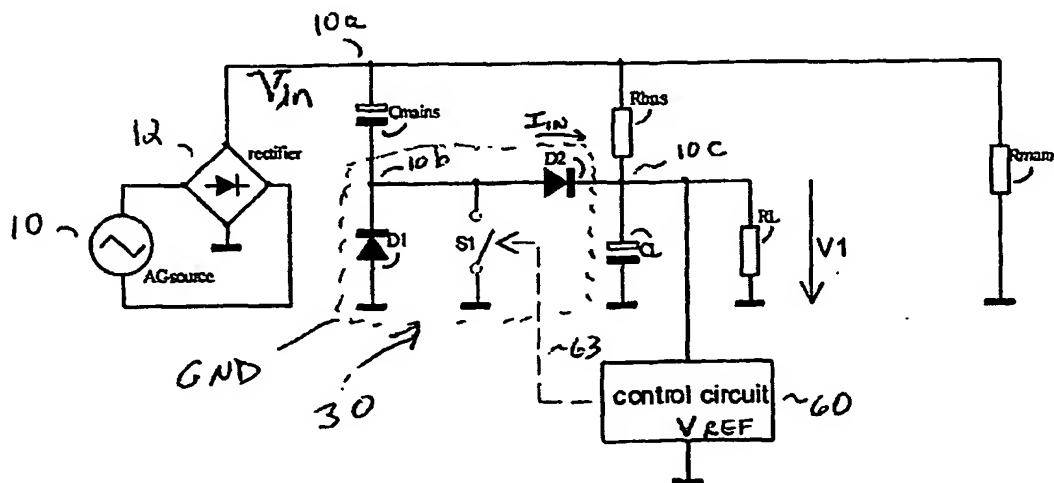
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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CAPACITIVELY COUPLED POWER SUPPLY



(57) Abstract: A power supply comprises a pair of first and second capacitors forming a capacitive voltage divider. A source of a periodic input supply voltage is coupled to the capacitive voltage divider for producing in the second capacitor, from a portion of the periodic input supply voltage, a second supply voltage that is coupled to a load circuit. A switch is coupled to the second capacitor for selectively coupling the first capacitor to the second capacitor in a manner to regulate the second supply voltage.

INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 046 916 A (WUIDART LUC ET AL) 4 April 2000 (2000-04-04)	1-9, 11-19
Y	column 2; figure 1	10
X	DE 40 40 841 A (PHILIPS PATENTVERWALTUNG) 25 June 1992 (1992-06-25)	1-9, 11-19
	column 5, line 33 -column 6, line 13; figure 1	
Y	EP 1 174 998 A (MAGNETEK SPA) 23 January 2002 (2002-01-23)	10
	paragraphs '0033!', '0035!'; figures 6, 7D	
X	US 4 801 887 A (WEGENER ARMIN F) 31 January 1989 (1989-01-31)	1, 12
	column 3, line 54 -column 4, line 28; figure 1	
	--- -/-	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 0 855 790 A (BITRON SPA) 29 July 1998 (1998-07-29) abstract; figure 5</p>	1, 12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PO 03/05308

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6046916	A	04-04-2000	FR 2751804 A1 DE 69718388 D1 EP 0821469 A1	30-01-1998 20-02-2003 28-01-1998
DE 4040841	A	25-06-1992	DE 4040841 A1	25-06-1992
EP 1174998	A	23-01-2002	EP 1174998 A1 AT 240604 T DE 60002711 D1 DE 60002711 T2 ES 2198268 T3	23-01-2002 15-05-2003 18-06-2003 25-03-2004 01-02-2004
US 4801887	A	31-01-1989	DE 3612147 A1 DE 3780681 D1 EP 0241976 A1 JP 2053500 C JP 7093820 B JP 62290352 A	15-10-1987 03-09-1992 21-10-1987 10-05-1996 09-10-1995 17-12-1987
EP 0855790	A	29-07-1998	IT T0970049 A1 EP 0855790 A2	24-07-1998 29-07-1998